Ministry of Northern Development and Mines

Ontario

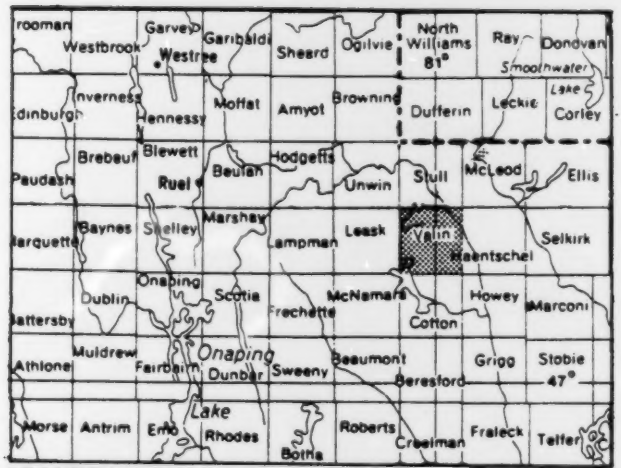
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 491

VALIN TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploration Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-03053/

NTS Number 41 P/3/2

Mining Claim Map Number M.1170

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 19 90. Valin Township, Geological Data Inventory Folio 491; compiled by the staff of the Resident Geologist's office, Sudbury.

Original Compilation by: Jerome, Lucille, August 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 4
Drill Hole Summary 5
Airborne Geophysical Survey Data 6
Geochemical Survey Data 7
Miscellaneous Data 8
Newspaper Clipping File 9
ODM General Index Search 10-11
Selected References 12-13
Notes and Addenda 14
(Aerial Photographs Index)

ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20 116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2 589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0 028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0 764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	No	L.J.
10	GSC Index to Publications	No	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	No	L.J.
14	Author - Subject Articles File	No	L.J.
15	Miscellaneous Papers: ODM & OGS	No	L.J.
16	ODM Geological Circulars: OGS Study Series , Reports	No	L.J.
17	ODM Preliminary Reports: ODM Bulletins	No	L.J.
18	ODM – OGS Open File Reports	No	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	Yes	L.J.
23	Aerial Photographs on File, Sudbury	Yes	L.J.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- ▲ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- △ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- △ gn. . . . . .Galena
- △ gt. . . . . .Garnet
- △ goe . . . . . .Goethite
- △ Au . . . . . Gold
- △ gf. . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . Ilmenite
- △ Fe . . . . . .Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- △ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . .Magnesite
- △ mag . . . . . .Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . .Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . .Platinum
- △ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- △ po . . . . . .Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . Siderite
- △ si . . . . . .Silica
- △ Ag . . . . . .Silver
- △ sl . . . . . Slate
- △ sm . . . . . .Smaltite
- △ sod. . . . . .Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . .Sphalerite
- △ spd. . . . . .Spodumene
- △ staur . . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . .Zinc
- △ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Chimo Gold Mines Ltd.	cp, float			Valin 0010

GDIF FORM NO. 1

VALIN TOWNSHIP 4

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
1	Chimo Gold Mines Ltd. (Valin 0010)			70											70		70[1]			
2	Holdex Group Ltd. (Valin 0011)											70[1]	70[1]							
3	Holdex Group Ltd. (Valin 0011)											70[1]	70[1]							
	[1] No significant anomaly																			

GDIF FORM NO. 2

VALIN TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

6 VALIN TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

GDIF FORM NO. 4

VALIN TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

ODM GENERAL INDEX SEARCH

Words searched:

Burwash Lake
Chimo Gold Mines Ltd.
Holdex Group Ltd.
Neault Lake
Valin Township
Wanapitei River
Welcome Lake

Index Volume	Listing:	Report Volume	Part	Page
1	Welcome Lake, Valin Tp			
	Ancient valley S. of	6		182
	Map, sketch	6		171
	Photo	6		176-177
	Pike	6		170
	Rocks	6		172
	Striae	6		181
2	Burwash Lake, Cotton and Valin Tps.			
	Iron formation, described	I.O.		205
4	Chimo Gold Mines Ltd.			
	Incorporated	55	1	48
8	Neault Lake			
	Valin Tp., Sudbury Dist.	GR106		24
9	Welcome - Onaping - Chinguchi Lakes Area, Sudbury Dist.			
	Summary of field work (gravity) 1980 by V. K. Gupta	MP 96		136-137

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

VALIN TOWNSHIP

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1967	Westree Sheet	ODM Map P.300	1" = 2 miles
Card, K. D., Lumbers, S. B.	1974,75	Sudbury-Cobalt Geological Compilation (revised)	OGS Map 2361	1" = 4 miles
Donovan, J.F.	1965	Maple Mountain Sheet	ODM Map P.301	1" = 2 miles
McIlwaine, W.H., Meyn, H.D., Card, K.D.	1970	Operation Maple Mountain, Smoothwater Lake Area	ODM Map P.584	1" = 1 mile
		GEOPHYSICAL MAPS		
GSC - ODM	1965	Aeromagnetic Map - Thor Lake	1520G	1" = 1 mile
		Aeromagnetic Map - Pilgrim Creek	1513G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Gogama-Gowganda Area	OGS Map P.2481	1:100 000
ODM - GSC	1965	Aeromagnetic Map - Gogama Sheet	7076G	1" = 4 miles
	1979	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Gogama	Map 80 374	1:250 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
EMR	1975	Topographic Map - Thor Lake	41 P/3	1:50 000
		Topographic Map - Pilgrim Creek	41 P/2	1:50 000
Roed, M.A.	1980	NOEGTS Data Base Map, Maple Mountain	Map 5023	1:100 000
		NOEGT Study 88, Maple Mountain Area		

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Roed, M.A., Hallett, D.R.	1980	NOEGTS Data Base Map, Westree	Map 5022	1:100 000
		NOEGT Study 88, Westree Area		
Sado, E.V., Carswell, B.F.	1987	Surficial Geology of Northern Ontario	OGS Map 2518	1:1 200 000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Gogama Sheet and Part of Ville-Marie Sheet	OGS Map P.1514	1:250 000
		GEOCHEMICAL MAPS		
		No data available as of July 29, 1988		
		GEOLOGICAL REPORTS AND MAPS		
Card, K.D., McIlwaine, W.H. and Meyn, H.D.	1973	Geology of the Maple Mountain Area	GR 106 Map 2258	1" = 1 mile
		JOURNALS, ARTICLES, THESES AND TECHNICAL REPORTS		
Eade, K.E.	1950	The Huronian Rocks of Northwestern Ontario; M.Sc., McGill University	MP 2	
Hadley, D.G.	1968	The Sedimentology of the Huronian Formation Ontario and Quebec, Canada	Theses on file	

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS INDEX

Scale 1" = 1/4 Mile

Year	Roll	Line	Number
1970	48	4710	249
	20	4709	92
	20	4708	27
	48	4707	245

Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SUR

PROPERTY LOCATION M

GEOLOGICAL DATA INVENTORY

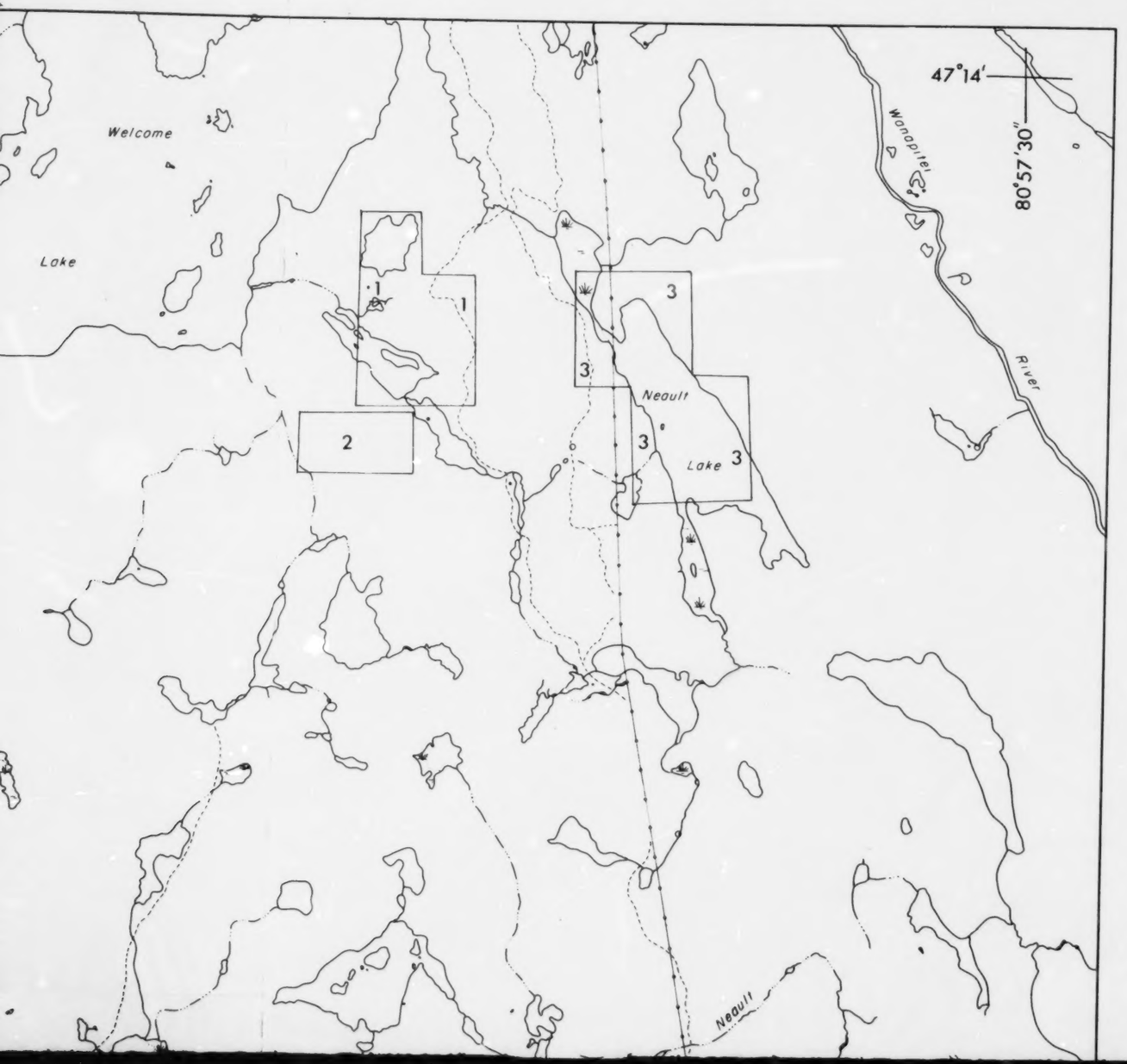
(Map 1 of 2)

VALIN TOWN

Scale 1:31 680

Kilometre 0.5 0 0.5

Mile 0.5 0 0.5



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 491

(Map 1 of 2)

VALIN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

VALIN TOWN

Scale 1:31 680

Kilometre 0.5 0 0.5

Mile 0.5 0 0.5

Leask Cr

2

3

3

Neault

Lake 3

River

Neault

Burwash

81°04

47°09

Lake

Cr

EXPLORATION DATA FIL

■ 1 6 Reference number is always inside
See listing in text pages.

□ x 4 Small area of exploration

□ ★ File covers whole township or are

VALIN TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ 1 6 Reference number is always inside work area outlined. See listing in text pages.

□ x 4 Small area of exploration

□ ★ File covers whole township or area